

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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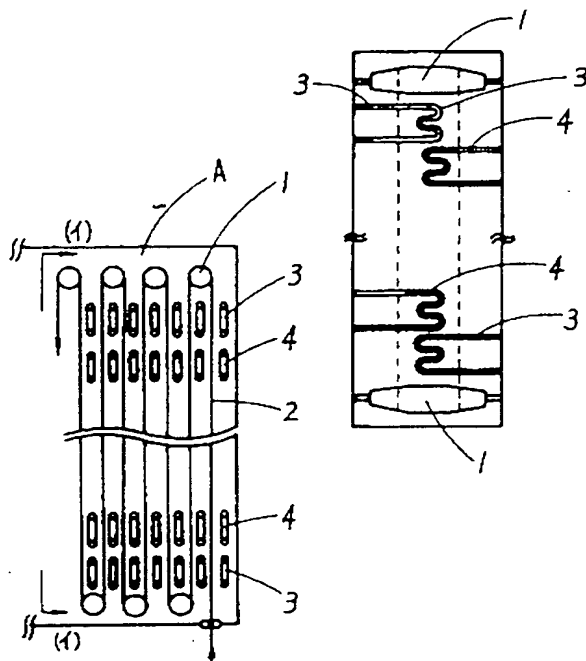
APPLICATION DATE : 31-10-80  
APPLICATION NUMBER : 55154062

APPLICANT : KAWASAKI STEEL CORP;

INVENTOR : OOTA NORIO;

INT.CL. : C21D 9/52 C21D 9/56

TITLE : CONTINUOUS ANNEALING METHOD  
FOR COLD ROLLED STEEL STRIP  
AND ITS DEVICE



ABSTRACT : PURPOSE: To anneal a cold-rolled steel strip continuously without zigzag running irrespectively of sizes of the steel strip by shielding the radiation heat to the rolls in a continuous heating furnace for cold-rolled steel strips in said furnace.

CONSTITUTION: A cold-rolled steel strip 2 enters the heating zone A of a continuous annealing furnace, and while it travels between upper and lower in-furnace rolls 1, it is heated as desired. The rolls 1 are heated to prescribed temps. by the radiation heat from radiant tubes 3, 4. In this case, the burners of, for example, the radiant tubes 3 right above or below the rolls 1 are put out, to shut off the radiation heat to the rolls 1, whereby the heat crown phenomenon produced in the rolls 1 during continuous annealing is prevented. It is possible to anneal the steel strip 2 without zigzag running by preventing the heat crown phenomenon in this way.

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